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(56)参考文献 特開 平11-59704 (J P, A)

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(58)調査した分野(Int.Cl.⁷, D B名)

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(54)【発明の名称】 袋

1

(57)【特許請求の範囲】

【請求項1】 2枚の側壁フィルムを重ね合わせた袋であって、注ぎ口における各側壁フィルムに、注出方向に向けて、対向しない非対称の位置に補強線を各々形成してあり、且つ2枚の側壁フィルムに形成した上記補強線が互いに交差した袋。

【請求項2】 上記非対称な補強線を湾曲形成した請求項1記載の袋。

【請求項3】 上記補強線が、上記各側壁フィルムの縦方向中心線と交差して少なくともその中央部分まで延長している請求項1記載の袋。

【発明の詳細な説明】

【0001】

【発明の属する技術分野】 本発明は、注ぎ口を改良した袋に関する。

2

【0002】

【従来の技術及び発明が解決しようとする課題】 特開平7-2260号公報に、液体注出時における注ぎ口の閉塞防止のために、注ぎ口に、フィルムの変形加工によって形成された線状変形からなる補強機構を設けたものが記載されている。

【0003】 上記の補強機構は、自立袋を構成する二枚のフィルムに、各二つの補強機構が、対向する同じ位置、即ち対称的に各々配置されるものであるため、閉塞しやすく、内容物を安定して注出できない場合がある。

【0004】 本発明は、注ぎ口の為の変形加工が容易で、且つ閉塞を生じることなく安定した方向へ内容物を注出できる袋を提供する。

【0005】

3

【課題を解決するための手段】本発明は、2枚の側壁フィルムを重ね合わせた袋であって、注ぎ口における各側壁フィルムに、注出方向に向けて、対向しない非対称の位置に補強線を各々形成してあり、且つ2枚の側壁フィルムに形成した上記補強線が互いに交差した袋を提供することにより、上記目的を達成したものである。

【0006】

【発明の実施の形態】本発明の好ましい実施形態である自立袋10は、図1に示すように、ポリエチレン等の可撓性のフィルム材料からなる一対の側壁フィルム11と底壁フィルム12とを、その縁部をシールして袋状に一体化し、液体を収容する収容部16を形成したものである。自立袋10の上端角部には、縁部から斜め上方に突出する注ぎ口片13が設けてあり、この注ぎ口片13の先端部分を線A-Aに沿って切り取ると、先端が開口する注ぎ口14が突出形成される。

【0007】注ぎ口14における上記一対の側壁フィルム11には、注ぎ口14の突出方向の各中心線X-Xを挟んで、一方(図1の表側)の側壁フィルム11については中心線X-Xから斜め上方にずれて湾曲しつつ延長する断面凸状の第1補強線17を、他方(図1の裏側)の側壁フィルム11については中心線X-Xから斜め下方にずれて湾曲しつつ延長する断面凸状の第2補強線18を、各々形成してある。

【0008】第1補強線17は、斜め上方に凸となった曲線状に湾曲し、側壁フィルム11の縦方向中心線Z-Zを越えてさらに延長する。

【0009】第2補強線18は、斜め下方に凸となった曲線状に湾曲した後、側壁フィルム11の縦方向中心線Z-Zと交差する位置を変曲点として、斜め上方に凸となった曲線状に湾曲しつつさらに延長してS字カーブを描き、その終端部分は、自立袋10の胴部表面略中央部分において、側縁部分に近接して位置する。

【0010】第1補強線17と第2補強線18は、縦方向中心線Z-Zの付近で交差する。

【0011】断面凸状の第1補強線17及び第2補強線18は、各々、例えば加熱された雄雌型を用いて側壁フィルム11を金型の溝内でプレスしたり、あるいはヒートシール等によって、外側に凸となった断面の線形補強機構として、これらを対称に配置することを要することなく、容易に形成することができる。また、加圧成形等によって、例えば断面が半円形状の突条を側壁フィルム11に沿って形成することで、各補強線17、18としても良い。

【0012】本実施形態によれば、図2に示すように、側壁フィルム11のシール中心線Y-Yを対称軸として上記中心線X-Xの両側に非対称にずらして配置された第1補強線17及び第2補強線18によって、注ぎ口14の開口は、表裏の側壁フィルム11にかかる力の方向を変化させながら拡げられるので、注出時における注ぎ

4

口14の開口を促して、注ぎ口14の閉塞を効果的に防止する。また非対称な第1補強線17及び第2補強線18により、注ぎ口14にはねじれた仮想導入路が形成されて、内容物がねじれた状態で流出するので、安定した流出方向が保持され、又、注ぎ性が向上する。

【0013】また、本実施形態によれば、注ぎ口14における第1補強線17及び第2補強線18が、上記各中心線X-Xを挟んで異なる側に湾曲する曲線状に形成されているので、内容物がスパイラル状に流出して、注ぎ性や流出方向の安定性がさらに向上する。

【0014】さらに、本実施形態によれば、第1補強線17及び第2補強線18が、各側壁フィルム11の縦方向中心線Z-Zを越えて、自立袋10の胴部表面略中央部分まで延長しているため、内容物の重量によって胴部が押し上げられようとする力を、これらの補強線17、18を介して注ぎ口14まで導き、注ぎ口14の開口を開かせる力へと変換して、注ぎ口14の閉塞をさらに効果的に防止するとともに、注ぎ性を向上する。

【0015】さらに、各補強線17、18が自立袋10の胴部表面略中央部分まで延長していることにより、袋の剛性を高め、手に持つ時の把持性を向上できると共に、自立性を向上できる。また見栄えを良くして自立袋10の外観が向上でき、注ぎ口14のアクセントラインや保持ガイドの役割も果たす。

【0016】本発明は種々の変更が可能である。例えば、第1補強線17及び第2補強線18は、直線あるいは直線の組み合わせでも良く、また各中心線X-Xの同じ側でも良く、湾曲又は屈曲方向も同じ側でも反対側でも良い。また、第1補強線17及び第2補強線18は、少なくとも注ぎ口14に設けられていれば良く、必ずしも胴部中央部分まで延長させる必要はない。さらに、注ぎ口14は必ずしも斜め上方に突出するものである必要はなく、上縁中央に上方に突出していても良いし、突出していなくとも良い。

【0017】

【発明の効果】本発明の袋によれば、注ぎ口の変形加工が容易で、且つ閉塞を生じることなく安定して内容物を注出することができる。

【図面の簡単な説明】

【図1】本発明の一実施形態に係る自立袋を示す正面図である。

【図2】注ぎ口の開口状況を示す図1のA-Aに沿った断面図である。

【符号の説明】

- 10 自立袋
- 11 側壁フィルム
- 12 底壁フィルム
- 13 注ぎ口片
- 14 注ぎ口
- 16 収容部

(3)

特許 3 3 9 1 7 1 8

5

6

17 第1補強線

18 第2補強線

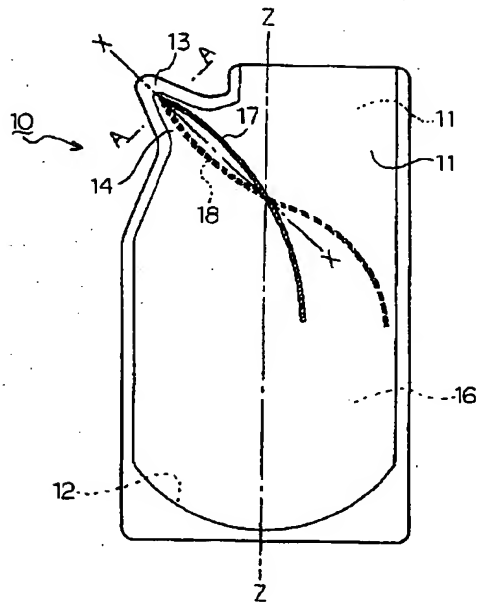
X-X 注ぎ口の突出方向の中心線

* Y-Y シール中心線

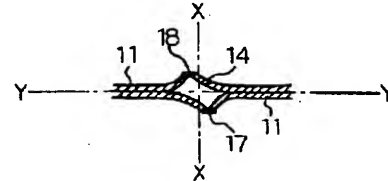
Z-Z 側壁フィルムの縦方向中心線

*

【図1】



【図2】



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CLAIMS

(57) [Claim(s)]

[Claim 1] The bag with which it is the bag on top of which the side-attachment-wall film of two sheets was laid, and the above-mentioned reinforcement wire which has formed the reinforcement wire in the unsymmetrical location which does not counter each side-attachment-wall film in a tap towards the pour direction respectively, and was formed in the side-attachment-wall film of two sheets crossed mutually.

[Claim 2] the above -- the bag according to claim 1 which carried out bow formation of the unsymmetrical reinforcement wire.

[Claim 3] The bag according to claim 1 which the above-mentioned reinforcement wire intersected the lengthwise direction center line of each above-mentioned side-attachment-wall film, and has extended to a part for the center section at least.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the bag which improved the tap.

[0002]

[Description of the Prior Art] What established the system ruggedization which consists of a line status change form formed in JP,7-2260,A of deformation processing of a film at the tap for lock out prevention of the tap at the time of liquid pour is indicated.

[0003] since two system ruggedization is the same locations which counter, i.e., the thing which is alike and is arranged respectively symmetrically, each, it is easy to blockade on the film of two sheets which constitutes an independence bag, and it may be unable to pour [the above-mentioned system ruggedization may be unable to be stabilized for them and] out contents on it

[0004] Deformation processing for a tap is easy for this invention, and it offers the bag which can pour out contents in the direction stabilized without producing lock out.

[0005]

[Means for Solving the Problem] This invention attains the above-mentioned object by offering the bag with which the above-mentioned reinforcement wire which has formed the reinforcement wire in the unsymmetrical location which does not counter each side-attachment-wall film [in / it is the bag on top of which the side-attachment-wall film of two sheets was laid, and / a tap] towards the pour direction respectively, and was formed in the side-attachment-wall film of two sheets crossed mutually.

[0006]

[Embodiment of the Invention] As shown in drawing 1 , the independence bag 10 which is the desirable operation gestalt of this invention carries out the seal of the edge, unites with saccate the side-attachment-wall film 11 and the bottom wall film 12 of a couple which consist of flexible film materials, such as polyethylene, and forms the hold section 16 which holds a liquid. The tap piece 13 which projects in the slanting upper part is formed in the upper bed corner of the independence bag 10 from the edge, and if a part for the point of this tap piece 13 is cut off along with line A-A, projection formation of the tap 14 a head carries out [the tap] opening will be carried out.

[0007] On the side-attachment-wall film 11 of a up Norikazu pair in a tap 14 The 1st cross-section convex reinforcement wire 17 extended shifting from center line X-X to the slanting upper part, and curving [insert each center line X-X of the projection direction of a tap 14,] about the side-attachment-wall film [on the other hand / (side front of drawing 1)] 11

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TECHNICAL FIELD

[Field of the Invention] This invention relates to the bag which improved the tap.

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EFFECT OF THE INVENTION

[Effect of the Invention] According to the bag of this invention, deformation processing of a tap is easy, and it is stabilized without producing lock out and contents can be poured out.

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TECHNICAL PROBLEM

[Description of the Prior Art] What established the system ruggedization which consists of a line status change form formed in JP,7-2260,A of deformation processing of a film at the tap for lock out prevention of the tap at the time of liquid pour is indicated.

[0003] since two system ruggedization is the same locations which counter, i.e., the thing which is alike and is arranged respectively symmetrically, each, it is easy to blockade on the film of two sheets which constitutes an independence bag, and it may be unable to pour [the above-mentioned system ruggedization may be unable to be stabilized for them and] out contents on it

[0004] Deformation processing for a tap is easy for this invention, and it offers the bag which can pour out contents in the direction stabilized without producing lock out.

[0005]

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MEANS

[Means for Solving the Problem] This invention attains the above-mentioned object by offering the bag with which the above-mentioned reinforcement wire which has formed the reinforcement wire in the unsymmetrical location which does not counter each side-attachment-wall film [in / it is the bag on top of which the side-attachment-wall film of two sheets was laid, and / a tap] towards the pour direction respectively, and was formed in the side-attachment-wall film of two sheets crossed mutually.

[0006]

[Embodiment of the Invention] As shown in drawing 1 , the independence bag 10 which is the desirable operation gestalt of this invention carries out the seal of the edge, unites with saccate the side-attachment-wall film 11 and the bottom wall film 12 of a couple which consist of flexible film materials, such as polyethylene, and forms the hold section 16 which holds a liquid. The tap piece 13 which projects in the slanting upper part is formed in the upper bed corner of the independence bag 10 from the edge, and if a part for the point of this tap piece 13 is cut off along with line A-A, projection formation of the tap 14 a head carries out [the tap] opening will be carried out.

[0007] On the side-attachment-wall film 11 of a up Norikazu pair in a tap 14 The 1st cross-section convex reinforcement wire 17 extended shifting from center line X-X to the slanting upper part, and curving [insert each center line X-X of the projection direction of a tap 14,] about the side-attachment-wall film [on the other hand / (side front of drawing 1)] 11 The cross-section convex 2nd box reinforcement wire 18 extended shifting from center line X-X to a slanting lower part, and curving about the side-attachment-wall film 11 of another side (background of drawing 1) is formed respectively.

[0008] The 1st reinforcement wire 17 curves in the shape of [which became a convex in the slanting upper part] a curve, and is further extended exceeding lengthwise direction center line Z-Z of the side-attachment-wall film 11.

[0009] By making into point of inflection the location which intersects lengthwise direction center line Z-Z of the side-attachment-wall film 11 after the 2nd reinforcement wire 18 curves in the shape of [which became a slanting lower part with the convex] a curve, curving in the shape of [which became a convex in the slanting upper part] a curve, it extends further and a S character curve is drawn, in a part for the drum section surface abbreviation center section of the independence bag 10, the amount of the trailer approaches a side edge part, and it is located.

[0010] The 1st reinforcement wire 17 and the 2nd reinforcement wire 18 cross near lengthwise direction center line Z-Z.

[0011] Cross-section convex the 1st reinforcement wire 17 and the 2nd reinforcement wire 18 can be formed easily, without pressing the side-attachment-wall film 11 by Mizouchi of metal mold, or requiring arranging these to the symmetry as linearity system ruggedization of the cross section which became a convex outside with heat sealing etc. respectively using the heated male-and-female mold. Moreover, it is good also as each reinforcement wires 17 and 18 because a cross section forms the protruding line of a semicircle configuration along with the side-attachment-wall film 11 by pressing etc.

[0012] According to this operation gestalt, as shown in drawing 2 , with the 1st reinforcement wire 17 and the 2nd reinforcement wire 18 which shifted asymmetrically on both sides of above-mentioned center line X-X, and have been arranged at them by setting a symmetry axis as seal center line Y-Y of the side-attachment-wall film 11 Since opening of a tap 14 can be extended changing the direction of the force concerning the side-attachment-wall film 11 of a front flesh side, opening of the tap 14 at the time of pour is urged to it, and it prevents lock out of a tap 14 effectively. Moreover, since a distorted virtual installation way is formed in a tap 14 with the 1st unsymmetrical reinforcement wire 17 and the 2nd unsymmetrical reinforcement wire 18 and contents flow out in the distorted condition, the stable runoff direction is held, and it pours, and a sex improves.

[0013] Moreover, since the 1st reinforcement wire 17 and the 2nd reinforcement wire 18 in a tap 14 are formed in the shape of [which curves to a different side on both sides of each above-mentioned center line X-X] a curve according to this operation gestalt, contents flow out in the shape of a spiral, it pours and a sex and the stability of the runoff direction improve further.

[0014] Furthermore, according to this operation gestalt, since the 1st reinforcement wire 17 and the 2nd reinforcement wire 18 have extended exceeding lengthwise direction center line Z-Z of each side-attachment-wall film 11 to a part for the drum section surface abbreviation center section of the independence bag 10 The force which a drum section tends to extend with the weight of contents is drawn to a tap 14 through these reinforcement wires 17 and 18, while changing into the force of making opening of a tap 14 opening and preventing lock out of a tap 14 still more effectively, it pours and a sex is improved.

[0015] Furthermore, when each reinforcement wires 17 and 18 have extended to a part for the drum section surface abbreviation center section of the independence bag 10, rigidity in a bag is raised, and independence nature can be improved while being able to improve the grasping nature when having in a hand. Moreover, appearance is improved, it can improve and the accent line of a tap 14 and the role of a maintenance guide also achieve the appearance of the independence bag 10.

[0016] Various modification is possible for this invention. For example, the combination of a straight line or a straight line is sufficient as the 1st reinforcement wire 17 and the 2nd reinforcement wire 18, and they may be each same center line X-X side, and the side same also as a bow or the crookedness direction or an opposite hand is sufficient as them. Moreover, it is not necessary to make the 1st reinforcement wire 17 and the 2nd reinforcement wire 18 not necessarily extend to a part for a drum section center section that what is necessary is to just be prepared in the tap 14 at least. Furthermore, a tap 14 does not necessarily need to project in the slanting upper part, may project up in the center of an upper line, and does not need to project.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the front view showing the independence bag concerning 1 operation gestalt of this invention.

[Drawing 2] It is a sectional view in alignment with A-A of drawing 1 which shows the opening situation of a tap.

[Description of Notations]

10 Independence Bag

11 Side-Attachment-Wall Film

12 Bottom Wall Film

13 Tap Piece

14 Tap

16 Hold Section

17 1st Reinforcement Wire

18 2nd Reinforcement Wire

X-X Center line of the projection direction of a tap

Y-Y Seal center line

Z-Z The lengthwise direction center line of a side-attachment-wall film

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- ## DRAWINGS

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